

Work Order ID 137513***137513***

Page 1

October 05, 2015 10:38:39 AM

Item ID: D3599-1

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Tie Wrap

Start Date: 10/5/2015 Start Qty: 30.00

Required Date: 10/19/2015 Req'd Qty: 30.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: SLDate: 20151005

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

D3599

Rev A

100

0.00

100

PURCHASING

Purchasing

Memo

0.00

Purchasing

Issue P/O: 30052 Purchase Part Number: 7130k41 Supplier: Mc Master
Carr Certificate of conformity is requiredCL OCT 07 2015 100

110

Receive & Inspect for Damage & Mat'l Certs

0.00

110

Packaging

Memo

0.01

Packaging

Ensure certificate of conformity is attached

100
OCT 13 2015 DAS
6
9-89

120

QC6- Inspect dimensions to drawing

0.00

120

QC

Memo

0.00

Quality Control

100
OCT 13 2015 DAS
38
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

Work Order ID 137513***137513***

Page 2

October 05, 2015 10:38:39 AM

Item ID: D3599-1 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Tie Wrap
Start Date: 10/5/2015 Start Qty: 30.00 ***30*** Cust Item ID:
Required Date: 10/19/2015 Req'd Qty: 30.00 ***30*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: Sto44	0.00		600					
130									
Packaging	Memo	0.01							
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.05							
Quality Control									

OCT 13 2015

DAS

MCS **OCT 14 2015**

MCS **OCT 14 2015**

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :			
Misidentified	☐	Past Due	☐				

Picklist Print

October 05, 2015 10:39:45 AM

Page 1

Work Order ID: 137513

137513

Parent Item: D3599-1

D3599-1

Parent Item Name: Tie Wrap

Start Date: 10/5/2015

Required Date: 10/19/2015

Start Qty: 30.00

Required Qty: 30.00

Comments: IPP Rev:A New Issue 07.03.07 ec

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
7130K41 *7130K41* TIE WRAP		Purchased	No			110	Each	0.0000	1	30 100	DAS 8 9-88	15-10-13	

DESIGN <i>LE</i>	DRAWN BY <i>LE</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3599	REV. A SHEET 1 OF 1
DATE 07.02.12		TITLE TIE-WRAP SCALE NTS	
REV A	DATE 07.02.12	DESCRIPTION NEW ISSUE	

RELEASED
07.02.27 *[Signature]*

20151005
SH 137513

SPECIFICATION CONTROL DRAWING

DART P/N	DESCRIPTION	WIDTH (in)	LENGTH (in)	COLOUR	MCMaster-CARR P/N
D3599-1	NYLON CABLE TIE	0.10	6.38	OFF-WHITE	7130K41

D3599-X TIE-WRAP

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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO30052**

Purchase Order Date 10/7/2015

PO Print Date 10/7/2015

Page Number 1 of 5

Order From :

VU-MCM001

Ship To : DART AEROSPACE LTD

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 330 995 5500

Ship To Contact

Ship To Phone

Ship Via: Purolator ground ppd

Ship Acct:

Buyer

Customer POID

Customer Tax # 10127-2607

Terms Net 10

Currency USD

FOB FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	8672K31 AS PER DWG D4287 REV. A B137521	UHMW U-Channel	10/9/2015 Yes 10/9/2015		24.00 f	\$3.26	\$78.24
Line Total:							\$78.24
2	7130K41 AS PER DWG D3599 REV. A B137513 1 PK OF 100 PCS	TIE WRAP	10/9/2015 Yes 10/9/2015		100.00 Each <i>10/9/15</i>	\$0.04	\$4.09
Line Total:							\$4.09

Note:

10/7/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO30052

Purchase Order Date 10/7/2015

PO Print Date 10/7/2015

Page Number 2 of 5

Order From :

VU-MCM001

Ship To : DART AEROSPACE LTD

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 330 995 5500

Ship To Contact

Ship To Phone

Ship Via: Purolator ground ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 10

Currency

USD

FOB

FCA - (Free Carrier)

3	7566K25	TIE WRAP MOUNT	10/9/2015	50.00		\$0.16	\$8.12
			Yes	Each			
			10/9/2015				

AS PER DWG D3600 REV.A
B137520

Line Total: \$8.12

4	71500-30	85205A68 MIC	10/9/2015	1.00		\$159.02	\$159.02
			Yes	Each			
			10/9/2015				

Line Total: \$159.02

Deliver To: JEAN-LUC

5	71400-65	9552T61 CONPACT PUSH CONNECTOR	10/9/2015	2.00		\$6.62	\$13.24
			Yes	Each			
			10/9/2015				

Line Total: \$13.24

Deliver To: LUC

Note:

10/7/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO30052**

Purchase Order Date 10/7/2015

PO Print Date 10/7/2015

Page Number 3 of 5

Order From :

VU-MCM001

Ship To : DART AEROSPACE LTD

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

330 995 5500

Ship To Contact

Ship To Phone

Ship Via:

Purolator ground ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 10

Currency

USD

FOB

FCA - (Free Carrier)

6	71550-15	8491A712 DRILL BUSHING	10/9/2015	6.00	✓	\$5.89	\$35.34
			Yes	Each			
			10/9/2015				

Line Total: \$35.34

Deliver To: DAVID.D

7	71500-30	8803A41 REAMER .2660"	10/9/2015	1.00	✓	\$24.79	\$24.79
			Yes	Each			
			10/9/2015				

Line Total: \$24.79

Deliver To: CNC

8	71500-30	8324A79 REAMER .2520"	10/9/2015	2.00	✓	\$39.68	\$79.36
			Yes	Each			
			10/9/2015				

Line Total: \$79.36

Deliver To: CNC

Note:

10/7/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO30052

Purchase Order Date 10/7/2015

PO Print Date 10/7/2015

Page Number 4 of 5

Order From :

VU-MCM001

Ship To : DART AEROSPACE LTD

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

330 995 5500

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 10

Currency

USD

FOB

FCA -- (Free Carrier)

Ship To Contact

Ship To Phone

Ship Via:

Purolator ground ppd

Ship Acct:

9	71500-30	91732A216 HELICOILS 1/2-13NC	10/9/2015	3.00	/	\$5.52	\$16.56
			Yes	Each			
			10/9/2015				

Line Total: \$16.56

Deliver To: CNC

10	71475-45	8953T6 BARRIER CHAIN 25 FT YELLOW	10/9/2015	1.00	/	\$27.75	\$27.75
			Yes	Each			
			10/9/2015				

Line Total: \$27.75

Deliver To: LUC

11	71475-45	97110A222 CONCRETE ANCHORS	10/9/2015	50.00	/	\$0.88	\$44.00
			Yes	Each			
			10/9/2015				

Line Total: \$44.00

Deliver To: LUC

Note:

10/7/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO30052**

Purchase Order Date 10/7/2015

PO Print Date 10/7/2015

Page Number 5 of 5

Order From :

VU-MCM001

Ship To : DART AEROSPACE LTD

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

330 995 5500

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 10

Currency

USD

FOB

FCA - (Free Carrier)

Ship To Contact

Ship To Phone

Ship Via:

Purolator ground ppd

Ship Acct:

12	71500-10	8803A65 REAMER 0.445"	10/9/2015	2.00	\$33.24	\$66.48
			Yes	Each		
			10/9/2015			

15/10/19
SPY

Line Total: \$66.48

Deliver To: DAN.P

13	71401-45	PROCUREMENT QUALITY CLAUSES	10/9/2015	1.00	\$0.00	\$0.00
			Yes			
			10/9/2015			

PROCUREMENT QUALITY CLAUSES

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A025 CERTIFICATE OF CONFORMANCE

A040 NOTIFICATION OF QUALITY ESCAPE

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

Line Total: \$0.00

PO Total: \$556.99

N
CL

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 2

Change Date: 10/7/2015

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO30052
Order Placed By
Chantal Lavoie

Page 1 of 1
10/07/2015

McMaster-Carr Number
1720954-03

Line	Product	Ordered	Shipped
2	7130K41 Nylon Cable Tie, 6" LG, 1-1/2" Bundle Diameter, 10 lb Break Strength, White, Packs of 100	1 Pack	1
3	7566K25 Cable Tie Mount, Adhesive/Fastener Mount, 4 Way, 0.21" Tie WD. , White, Packs of 50	1 Pack	1
4	85205A68 Mitutoyo Series 103 Micrometer, 103-218, with Ratchet, 3"-4" Range, .0001" Graduations	1 Each	1
5	9552T61 Assembled Compact Push-in Connector, with 6" Wire Leads, 3 Pole	2 Each	2
6	8491A712 Press-Fit Drill Bushing, 0.1875" (3/16") ID, 13/32" OD, 1/4" Length	6 Each	3
7	8803A41 High-Speed Steel Letter Size Chucking Reamer, Size H, .2660" Diameter, 1-1/2" Flute Length	1 Each	1
8	8324A79 Cobalt Steel Decimal Size Chucking Reamer, .2520" Diameter, 1-1/2" Flute Length, .2405" Shank	2 Each	2
9	91732A216 18-8 Stainless Steel Standard Helical Insert, 1/2"-13 Internal Thread, .75" Length, MS122125, Packs of 5	3 Packs	3
10	8953T6 Plastic Barrier Chain, 2" L X 1-1/32" W, 1/4" Link Diameter, Yellow, 25' Length	25 Feet	25
11	97110A222 Galvanized Steel Stud Anchor for Concrete, 3/8" Diameter, 3-3/4" Length	50 Each	50
12	8803A65 High-Speed Steel Decimal Chucking Reamer, .4450" Diameter, 1-3/4" L Flute, 7" L Overall, 6 Flute	2 Each	2

Shipped separately from our Chicago warehouse on 10/07

6 **8491A712** Press-Fit Drill Bushing, 0.1875" (3/16") ID, 13/32" OD, 1/4" Length

6
Each

3

10/10/15
JP